CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.15/KRIDL/WMM/Gradation/2014-15 05.06.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Filling of Potholes in Arterials and Sub - Arterials Roads in Dasarahalli Ward No.15, T. Dasarahalli Sub Division, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/15/2014-15 Dated: 03.06.2014

Date of Testing : 05.06.2014

Material : WMM

Sample Location : WMM Mix Plant Oven Dry Wt (gm): **25500**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	1025	1025	4.0	96.0	95-100
22.4	6180	7205	28.3	71.7	60-80
11.2	5675	12880	50.5	49.5	40-60
4.75	4260	17140	67.2	32.8	25-40
2.36	3595	20735	81.3	18.7	15-30
0.600	2210	22945	90.0	10.0	8-22
0.075	2270	25215	98.9	1.1	

Civil-Tech Consultants & Engineers Bangalore

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

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05.06.2014

Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	Filling of Potholes in Arterials and Sub - Arterials Roads in Dasarahalli Ward No.15, T. Dasarahalli Sub Division, BBMP, Bangalore.
Reference	BBMP/DZ/AEE/TDSD/PR/15/2014-15 Dated: 03.06.2014
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	05.06.2014

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	391	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	89	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	302	302	
4	Aggregate Impact value = percent fines	22.76	22.37	
	$100^{*} (W_2/W_1)\%$			22.56

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, Bangalore.
Name of Work	Filling of Potholes in Arterials and Sub - Arterials Roads in Dasarahalli Ward No.15, T. Dasarahalli Sub Division, BBMP, Bangalore.
Reference	BBMP/DZ/AEE/TDSD/PR/15/2014-15 Dated: 03.06.2014
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	05.06.2014

Result : Flakiness Index = **11.85%**

Elongation Index = **13.87%**

Result : Combined Flakiness & Elongation index 25.72%

Comments:

→ Maximum allowable Flakince & Elongation Index for Wet Mix Macadam is 30%

Note:

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05.06.2014

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Filling of Potholes in Arterials and Sub - Arterials Roads in Dasarahalli Ward No.15, T. Dasarahalli Sub Division, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/15/2014-15 Dated: 03.06.2014

Date of Testing : 05.06.2014

Material : WMM

Sample Location : WMM Mix Plant

As per MORTH Table 400-11

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.65	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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